



# PRODUCT DATA SHEET

Product Name: Diatomaceous Earth

## Certificate of Analysis

### Typical Physical and Optical Properties

Median Particle Size (microns)-----	10
325 Mesh Screen Residue %-----	2.0
Refractive Index-----	1.43
Oil Absorption, Spatula Rub-Out Method, %-----	120
Brightness, Green Filter-----	85
Loose Weight, lbs./cu. ft. (gm/liter)-----	12.0/192
Specific Gravity-----	2.2
Surface Area, m2/gm-----	35.7
Median Pore Diameter (microns)-----	1.2

### Typical Chemical Analysis parts per million (ppm)

Test: ICP-MS 29 Element Screen

<b>Aluminum</b>	3085.62	<b>Manganese</b>	4.45
<b>Arsenic</b>	4.43	<b>Molybdenum</b>	0.05
<b>Boron</b>	3.01	<b>Sodium</b>	907.75
<b>Barium</b>	48.88	<b>Nickel</b>	2.26
<b>Mercury</b>	0.0317	<b>Phosphorus</b>	14.06
<b>Beryllium</b>	0.35	<b>Lead</b>	2.36
<b>Calcium</b>	2948.67	<b>Antimony</b>	<0.01
<b>Cadmium</b>	0.485	<b>Selenium</b>	0.19
<b>Cobalt</b>	0.32	<b>Silica</b>	324.07
<b>Chromium</b>	1.49	<b>Tin</b>	0.01
<b>Copper</b>	9.78	<b>Strontium</b>	25.45
<b>Iron</b>	1594.87	<b>Thallium</b>	0.02
<b>Potassium</b>	1451.21	<b>Vanadium</b>	4.86
<b>Lithium</b>	0.068	<b>Zinc</b>	26.2
<b>Magnesium</b>	740.18	<b>Silver</b>	0.12

The samples were digested in trace mineral grade nitric acid under heat. The digests were then diluted with ultra-pure water to a final nitric acid content of 5% which provided a matrix match for the analytical standards. The prepared samples were analyzed by ICP-MS and accessed against concentration curves of known standards.

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**\*\* SiO<sub>2</sub> content: 92% PH 8.0**

**\*\* Crystalline Silica Content < .5%**

*(total crystalline silica, X-ray Diffraction)*